

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P219212

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A19/156-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6721.3 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

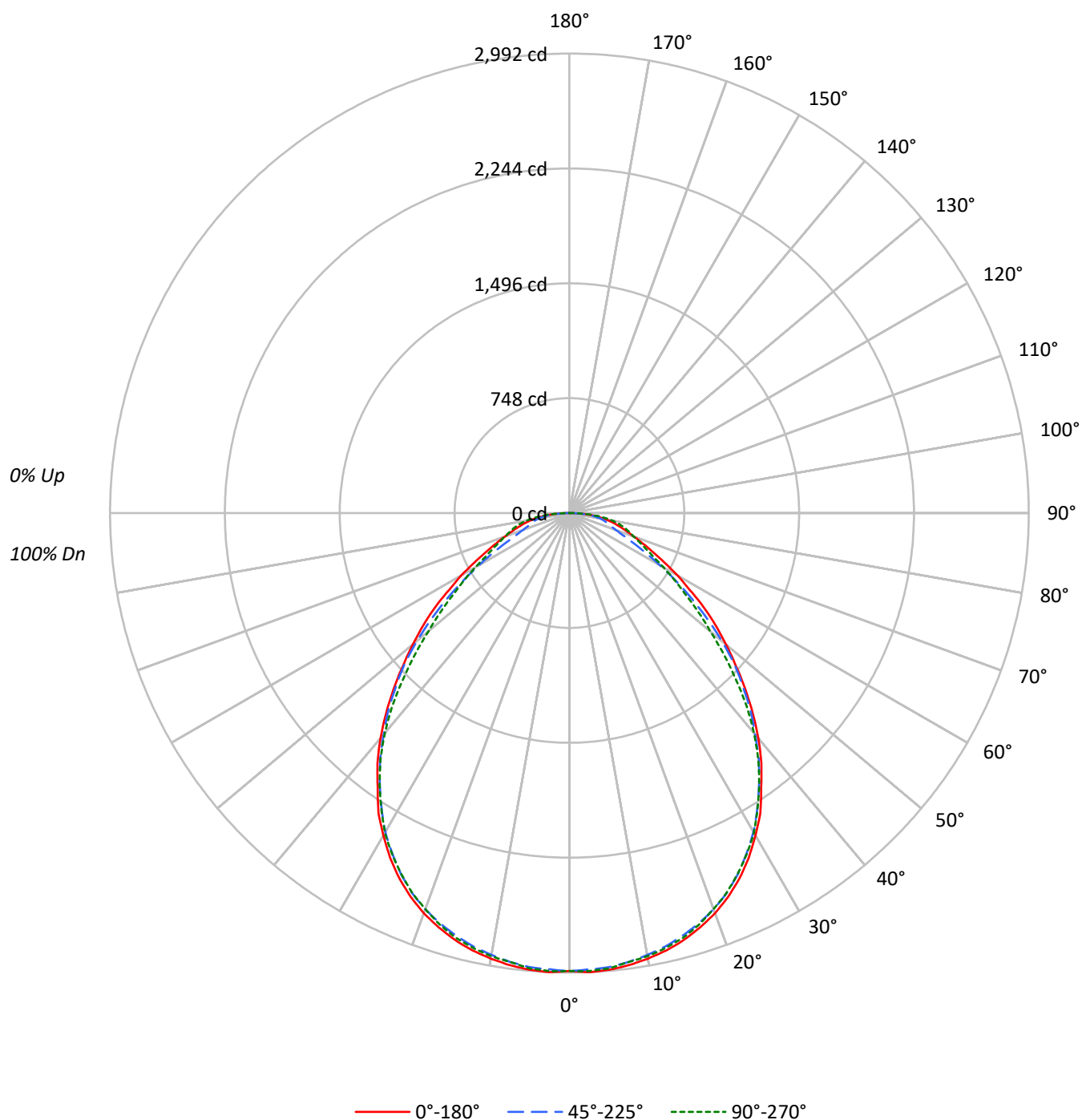
Input Watts (W): 70.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4568	4568	4568
5°	4590	4564	4575
10°	4581	4544	4557
15°	4564	4518	4538
20°	4521	4475	4473
25°	4433	4385	4382
30°	4286	4242	4251
35°	4071	4025	4030
40°	3828	3762	3739
45°	3509	3461	3324
50°	3172	3085	2853
55°	2848	2593	2459
60°	2494	2087	2163
65°	2175	1641	1991
70°	1990	1432	1990
75°	1991	1524	2194
80°	2161	1795	2501
85°	2372	2026	2682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	4.2
10°-20°	805.9	12.0
20°-30°	1195.0	17.8
30°-40°	1348.1	20.1
40°-50°	1221.0	18.2
50°-60°	880.9	13.1
60°-70°	526.0	7.8
70°-80°	325.1	4.8
80°-90°	136.9	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2283.3	34.0
0°-40°	3631.4	54.0
0°-60°	5733.3	85.3
0°-90°	6721.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6721.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2985	2981	2969	2966	2976	284
15°	2878	2861	2849	2850	2862	811
25°	2623	2608	2595	2586	2593	1205
35°	2177	2174	2152	2154	2156	1362
45°	1620	1609	1598	1559	1535	1248
55°	1066	1033	971	923	921	952
65°	600	528	453	514	549	604
75°	336	292	258	321	371	359
85°	135	118	115	151	153	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	2992.5	2984.2	2973.9	2980.1	2985.3
5°	2985.3	2981.1	2968.6	2965.5	2975.9
7.5°	2969.7	2959.3	2947.9	2953.1	2949.0
10°	2945.8	2936.5	2921.9	2923.0	2930.3
12.5°	2916.7	2905.3	2889.8	2893.9	2900.1
15°	2878.4	2860.7	2849.3	2850.3	2861.7
17.5°	2829.5	2816.0	2801.4	2804.6	2809.8
20°	2773.5	2766.2	2745.4	2739.2	2744.4
22.5°	2702.9	2689.4	2678.0	2674.8	2675.8
25°	2622.9	2608.3	2594.9	2585.5	2592.8
27.5°	2529.5	2517.0	2499.4	2496.2	2502.5
30°	2423.5	2414.2	2398.6	2394.5	2403.8
32.5°	2315.5	2299.9	2278.1	2278.1	2280.3
35°	2177.4	2174.3	2152.5	2153.6	2155.6
37.5°	2052.9	2038.3	2025.8	2013.3	2019.6
40°	1914.7	1898.1	1881.5	1873.2	1870.1
42.5°	1766.3	1753.8	1746.5	1716.4	1709.1
45°	1619.8	1609.4	1598.0	1558.6	1534.7
47.5°	1470.3	1468.2	1458.9	1389.3	1365.5
50°	1331.2	1328.1	1294.9	1221.1	1197.2
52.5°	1199.3	1178.5	1135.0	1062.2	1058.0
55°	1066.4	1033.2	970.9	923.1	921.0
57.5°	926.2	886.7	823.4	797.4	811.0
60°	814.1	753.8	681.2	684.3	706.1
62.5°	697.7	630.3	558.7	589.8	615.7
65°	600.2	528.5	452.7	514.0	549.3
67.5°	515.0	448.5	375.9	457.9	492.2
70°	444.4	390.4	319.8	406.0	444.4
72.5°	388.4	338.5	283.5	364.5	409.1
75°	336.4	291.8	257.5	320.9	370.7
77.5°	291.8	248.1	232.6	283.5	332.3
80°	245.0	205.6	203.5	247.1	283.5
82.5°	191.1	164.1	164.1	206.6	228.5
85°	135.0	118.4	115.3	150.6	152.6
87.5°	69.5	66.4	60.2	78.9	78.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)